

RAW SEQUENCE LISTING

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Application Serial Number: 10/722,903A

Source: JFWHO

Date Processed by STIC: 7-3-05

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/722,903A

DATE: 01/03/2005
TIME: 14:53:52

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\01032005\J722903A.raw

3 <110> APPLICANT: GTC Biotherapeutics, Inc.
5 <120> TITLE OF INVENTION: Modified Antibodies Stably Produced in Milk and Methods of
6 Producing Same
8 <130> FILE REFERENCE: GTC-53
10 <140> CURRENT APPLICATION NUMBER: 10/722,903A
11 <141> CURRENT FILING DATE: 2003-11-26
13 <150> PRIOR APPLICATION NUMBER: US 60/429,606
14 <151> PRIOR FILING DATE: 2002-11-27
16 <160> NUMBER OF SEQ ID NOS: 11
18 <170> SOFTWARE: PatentIn version 3.2
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 2028
22 <212> TYPE: DNA
23 <213> ORGANISM: Homo sapiens
26 <220> FEATURE:
27 <221> NAME/KEY: misc_feature
28 <223> OTHER INFORMATION: Human Ig germline H-chain G-E-A region B: gamma-4 constant
29 region, 3' end
31 <400> SEQUENCE: 1
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34 gcagggtggcg ccagccaggt gcacacccaa tgcccattgag cccagacact ggaccctgca 120
36 tggaccatcg cggatagaca agaaccgagg ggcctctgca ccctggggcc agctctgtcc 180
38 cacaccgccc tcacatggca ccacatctct tgcagcttcc accaaggccc catccgttt 240
40 cccctggcg ccctgtccca ggagcacctc cgagagcaca gccgccttgg gtcgccttgg 300
42 caaggactac ttccccaac cggtgacggt gtcgttggaaac tcaggcgccc tgaccagcgg 360
44 cgtgcacacc ttcccgctg tcctacagtc ctcagactc tactccctca gcagcgttgg 420
46 gaccgtgccc tccagcagct tgggcacgaa gacctacacc tgcaacgttag atcacaagcc 480
48 cagcaacacc aagggtggaca agagagttgg tgagaggcca gcacaggag ggagggtgtc 540
50 tgcgttggaaac caggctcagg cctcctgcct ggacgcaccc cggctgtgca gccccagccc 600
52 agggcagcaa ggcattggccc atctgtctcc tcaccctggag gcctctgacc accccactca 660
54 tgcgttggaa gagggttcc tggattttc caccaggctc cccgcaccac aggctggatg 720
56 ccccttacccc aggccttgcg cttatcaggcc aggtgttgcg ctcagacccctg ccaagagcc 780
58 tatccgggag gacccttgcgg cttgacatccatgg cccacccaa aggccaaact ctccactccc 840
60 tcaatgttccat caccatccat ctttccatgtt ctgtatccat cccatcttc tctctgttcc 900
62 gtcacaaatat ggtttccat gcccattatg cccatgttccatgg ccaacccagg cccatgttcc 960
64 cagctcaagg cgggacaggt gcccattatgg ctttgcattt ctttgcattt cccatgttccatgg 1020
66 gtgttgcacgc atccatctcc atctttccatgg ctttgcattt ctttgcattt cccatgttccatgg 1080
68 tcttcctgtt cccatgttccatgg ctttgcattt ctttgcattt cccatgttccatgg 1140
70 cgtgttgcgtt ggtttgcgtt ctttgcattt ctttgcattt cccatgttccatgg 1200
72 atggcgttggaa ggttgcataat gcaagacaa agccgcggga ggagcgttcc aacagcgttcc 1260
74 accgtgttggat ctttgcattt ctttgcattt cccatgttccatgg 1320
76 agtgcacaaat ggtttgcattt ctttgcattt cccatgttccatgg 1380
78 aagggtggaccc ctttgcattt ctttgcattt cccatgttccatgg 1440

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80	gccctggag	tgaccgctgt	gccaacctct	gtccctacag	ggcagccccg	agagccacag	1500					
82	gtgtacaccc	tgcccccatac	ccaggaggag	atgaccaaga	accaggteag	cctgacactgc	1560					
84	ctggtaaaag	gcttctaccc	cagcgacatc	gcccgtggagt	gggagagcaa	tggcagccg	1620					
86	gagaacaact	acaagaccac	gcctcccggt	ctggactccg	acggctccctt	cttcctctac	1680					
88	agcaggctaa	ccgtggacaa	gagcagggtgg	caggagggga	atgtcttctc	atgctccgtg	1740					
90	atgcatgagg	ctctgcacaa	ccactacaca	cagaagagcc	tctccctgtc	tctgggtaaa	1800					
92	tgagtgccag	ggccggcaag	cccccgctcc	ccggctctc	ggggtcgcgc	gaggatgctt	1860					
94	ggcacgtacc	ccgtctacat	acttcccagg	caccagcat	gaaaataaag	caccaccac	1920					
96	tgcctggc	ccctgtgaga	ctgtgatgg	tcttccacg	ggtcaggccg	agtctgaggc	1980					
98	ctgagtgaca	tgagggaggc	agagcgggtc	ccactgtccc	cacactgg		2028					
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102	<211> LENGTH:	61										
103	<212> TYPE:	DNA										
104	<213> ORGANISM:	Homo sapiens										
107	<220> FEATURE:											
108	<221> NAME/KEY:	misc_feature										
109	<223> OTHER INFORMATION:	IgG4 Hinge Region Nucleic Acid										
111	<400> SEQUENCE:	2										
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114	t						61					
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118	<211> LENGTH:	12										
119	<212> TYPE:	PRT										
120	<213> ORGANISM:	Homo sapiens										
123	<220> FEATURE:											
124	<221> NAME/KEY:	misc_feature										
125	<223> OTHER INFORMATION:	IgG4 Hinge Region Amino Acid										
127	<400> SEQUENCE:	3										
129	Glu	Ser	Lys	Tyr	Gly	Pro	Pro	Cys	Pro	Ser	Cys	Pro
130	1					5				10		
133	<210> SEQ ID NO:	4										
134	<211> LENGTH:	33										
135	<212> TYPE:	DNA										
136	<213> ORGANISM:	artificial sequence										
139	<220> FEATURE:											
140	<221> NAME/KEY:	misc_feature										
141	<223> OTHER INFORMATION:	S241P Oligo Nucleic Acid										
143	<400> SEQUENCE:	4										
144	ggtccccat	gtcctccctg	cccaggtaag	cca								33
147	<210> SEQ ID NO:	5										
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149	<212> TYPE:	PRT										
150	<213> ORGANISM:	artificial sequence										
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154	<221> NAME/KEY:	misc_feature										
155	<223> OTHER INFORMATION:	S241P Oligo Amino Acid										
157	<400> SEQUENCE:	5										
159	Gly	Pro	Pro	Cys	Pro	Pro	Cys	Pro	Gly	Lys	Pro	
160	1					5				10		

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163 <210> SEQ ID NO: 6
 164 <211> LENGTH: 65
 165 <212> TYPE: DNA
 166 <213> ORGANISM: Homo sapiens
 169 <220> FEATURE:
 170 <221> NAME/KEY: misc_feature
 171 <223> OTHER INFORMATION: IgG4 Hinge Region Nucleic Acid
 173 <400> SEQUENCE: 6
 174 cttctctctg cagagtccaa atatggtccc ccatgcccatt catgcccagg tccgccaacc 60
 176 caggc 65
 179 <210> SEQ ID NO: 7
 180 <211> LENGTH: 12
 181 <212> TYPE: PRT
 182 <213> ORGANISM: Homo sapiens
 185 <220> FEATURE:
 186 <221> NAME/KEY: misc_feature
 187 <223> OTHER INFORMATION: IgG4 Hinge Region Amino Acid
 189 <400> SEQUENCE: 7
 191 Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro
 192 1 5 10
 195 <210> SEQ ID NO: 8
 196 <211> LENGTH: 65
 197 <212> TYPE: DNA
 198 <213> ORGANISM: Homo sapiens
 201 <220> FEATURE:
 202 <221> NAME/KEY: misc_feature
 203 <223> OTHER INFORMATION: IgG2 Hinge Region Nucleic Acid
 205 <400> SEQUENCE: 8
 206 cttctctctg cagagcgcaa atgttgtgtc gagtgccac cgtgcccagg tccgccaacc 60
 208 caggc 65
 211 <210> SEQ ID NO: 9
 212 <211> LENGTH: 12
 213 <212> TYPE: PRT
 214 <213> ORGANISM: Homo sapiens
 217 <220> FEATURE:
 218 <221> NAME/KEY: misc_feature
 219 <223> OTHER INFORMATION: IgG2 Hinge Region Amino Acid
 221 <400> SEQUENCE: 9
 223 Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro
 224 1 5 10
 227 <210> SEQ ID NO: 10
 228 <211> LENGTH: 33
 229 <212> TYPE: DNA
 230 <213> ORGANISM: artificial sequence
 233 <220> FEATURE:
 234 <221> NAME/KEY: misc_feature
 235 <223> OTHER INFORMATION: Oligo 2014 Nucleic Acid
 237 <400> SEQUENCE: 10
 238 gaggagcagt tccagtctac ttaccgagtg gtc 33

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Input Set : A:\Sequence Listing.txt
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241 <210> SEQ ID NO: 11
242 <211> LENGTH: 11
243 <212> TYPE: PRT
244 <213> ORGANISM: artificial sequence
247 <220> FEATURE:
248 <221> NAME/KEY: misc_feature
249 <223> OTHER INFORMATION: Oligo 2014 Amino Acid
251 <400> SEQUENCE: 11
253 Glu Glu Gln Phe Gln Ser Thr Tyr Arg Val Val
254 1 5 10

VERIFICATION SUMMARY

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